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Docket No. LPTF06
US App. No. 10/510,195IN THE CLAIMS:

1. (currently amended) A composite metallic filtering mesh, at least comprising:

a bottom diffusion mesh and ~~one~~ two or more twill weave meshes; an innermost one or more of the twill weave meshes being fixed on an outer surface of the bottom diffusion mesh, wherein the one or more twill weave meshes are applied in filtrating solid particulates in a fluid and the bottom diffusion mesh is applied in diffusing the filtrated fluid; and

at least one inter-layer diffusion mesh positioned between two said twill weave meshes for diffusing filtrated fluid between said two twill weave meshes; the inter-layer diffusion mesh being fixed on an outer surface of one of said two twill weave meshes.

Claims 2-17. (canceled)

18. (currently amended) The composite metallic filtering mesh according to claim 2 1, wherein a metal fiber layer is fixed on ~~the~~ an outer surface of an outermost one of the twill weave meshes or between two of the inter-layer diffusion meshes; the metal fiber layer is made of weaving metal wires with 0.05-0.30 mm in diameter and the thickness of the metal fiber layer is 3-30 mm.

19. (currently amended) The composite metallic filtering mesh according to claim 2 1, wherein the bottom diffusion mesh is a woven mesh or a punching steel plate mesh with a mesh size of 5-50 meshes mesh; ~~the aperture apertures~~ of the twill weave meshes is are 40-400 micron; the inter-layer diffusion mesh is a woven mesh with a mesh size of 10-60 meshes mesh.

Claim 20. (canceled)

21. (currently amended) The sand control screen pipe according to claim 20 26, wherein a metal fiber layer is fixed on ~~the~~ an outer surface of an outermost one of the twill weave meshes or between the inter-layer diffusion meshes; the metal fiber layer is made of weaving metal wires with 0.05-0.30 mm in diameter and the thickness of the metal fiber layer is 3-30 mm.

22. (currently amended) The sand control screen pipe according to claim 20 26, wherein the bottom diffusion mesh is a woven mesh or a punching steel plate mesh with a mesh size of 5-50 meshes mesh; ~~the aperture apertures~~ of the twill weave mesh is are 40-400 micron; the inter-layer

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diffusion mesh is a woven mesh with a mesh size of 10-60 meshes mesh.

23. (currently amended) The sand control screen pipe according to claim 20 26, ~~wherein ring hoops for fixing the mesh sleeve are fixed respectively on the outer sides of both ends of the mesh sleeve~~[[14.]], wherein two or more supporting blocks are provided on the outer surface of the pipe body in order to make the sand control screen pipe be placed in the middle center while dropping down into the a well.

24. (currently amended) A sand control screen pipe, comprising:

a composite metallic filtering mesh, a multi-holes base pipe, an inner protective shroud, ~~and a plurality of supporting rings of the inner protective shroud, and an inner pipe;~~

wherein the composite metallic filtering mesh comprises a bottom diffusion mesh, ~~and one~~ two or more twill weave meshes, and at least one inter-layer diffusion mesh positioned between two twill weave meshes; ~~one or more twill weave meshes fixed on an outer surface of the bottom diffusion mesh, wherein one or more twill weave meshes are applied in filtrating solid particulates in a fluid; the twill weave meshes are one or more layers; one or more inter-layer diffusion meshes are fixed between more than one layer of the twill weave meshes and one or more inter-layer diffusion meshes diffuse the filtrated fluid between the two layers of twill weave meshes; an inter-layer diffusion mesh is fixed on an outer surface of the twill weave mesh in order to fully diffuse the fluid between the twill weave mesh and its external device; the bottom diffusion mesh is applied in diffusing the filtrated fluid; the composite metallic filtering mesh is fixed on the inner side of the multi-holes base pipe, and completely covers all through holes on the multi-holes base pipe; the inner protective shroud has petroleum-seeping holes, and is fixed on the inner side of the composite metallic filtering mesh and completely covers the composite metallic filtering mesh; the supporting ring rings of the inner protective shroud is are fixed on both ends of the inner side of hole area of the multi-holes base pipe; the two ends of the inner protective shroud along the axial direction of the multi-holes base pipe are fixed respectively on the supporting ring rings; an the inner pipe is fixed on the inner side of the inner protective shroud.~~

25. (currently amended) The sand control screen pipe according to claim 24, wherein the bottom diffusion mesh is a woven mesh or a punching steel plate mesh with a mesh size of 5-50 meshes mesh; the aperture apertures of the twill weave mesh is are 40-400 micron; the inter-layer diffusion mesh is a woven mesh with a mesh size of 10-60 meshes mesh; ~~an inner pipe is fixed~~

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~~on the inner side of the inner protective shroud; parts for connecting with other assemblies are set on both ends of the multi-holes base pipe.~~

26. (new) A sand control screen pipe, comprising:

a pipe body with through holes, wherein a pair of first supporting rings, a pair of ring hoops corresponding to the first supporting rings, and a pair of second supporting rings are formed on the pipe body;

a tubular inner protective shroud with through holes distributed on its surface, disposed on the pipe body and covering over the through holes of the pipe body, two ends of the tubular inner protective shroud being fixed to the pair of first supporting rings, respectively;

a composite metallic filtering mesh, wherein the composite metallic filtering mesh is fixed to an outer surface of the tubular inner protective shroud and its two ends are hermetically fixed between the first supporting rings and the ring hoops, respectively; and

an outer protective sleeve with through holes, disposed over the composite metallic filtering mesh and its two ends being fixed to the pair of second supporting rings, respectively;

wherein the composite metallic filtering mesh comprises: a bottom diffusion mesh and two or more twill weave meshes; an innermost one of the twill weave meshes being fixed on an outer surface of the bottom diffusion mesh; and at least one inter-layer diffusion mesh positioned between two twill weave meshes.

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IN THE CLAIMS:

Please replace original Fig. 6 with the amended Fig. 6 shown on the attached replacement sheet. A marked copy of the amended Fig. 6 is also enclosed herewith to show the changes made.